



Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

1 (Currently Amended): An anode electrode for a secondary battery having a cathode and an anode for releasing and receiving the same kind of metal ion therebetween, comprising:
an anode layer including ~~at least one of: oxide, sulfide and salt of other metal which forms an alloy with the metal to be obtained by reducing the metal ion; and~~ boron-added carbon, wherein the anode layer has having a thickness of 30 μm or less.

2 (Original): An anode electrode according to claim 1,
wherein the anode layer has a thickness between 1 μm inclusive and 30 μm inclusive.

3 (Currently Amended): An anode electrode according to claim 1,
wherein ~~the other metal is at least one metal selected from tin, germanium, indium, lead, silver and antimony, and~~
the boron-added carbon is boron-added amorphous carbon or boron-added graphite.

4 (Original): An anode electrode for a secondary battery having a cathode and an anode for releasing and receiving the same kind of metal ion therebetween, comprising:
an anode layer including carbonaceous material;
wherein the anode layer has a thickness less than 1 μm .

5 (Original): An anode electrode according to claim 4,
wherein the carbonaceous material is amorphous carbon or graphite.

6 (Currently Amended): A lithium ion secondary battery, comprising:

an anode electrode including an anode layer having ~~at least one of: oxide, sulfide and salt of metal which forms an alloy with lithium; and~~ boron-added carbon, the anode layer having a thickness of 30 μm or less;

a cathode electrode including a cathode layer; and

an electrolyte interposed between the cathode electrode and the anode electrode;

~~wherein the anode layer has a thickness of 30 μm or less.~~

7 (Original): A lithium ion secondary battery according to claim 6,

wherein the lithium ion secondary battery has a structure including a plurality of bipolar electrodes serially stacked by interposing electrolyte therebetween, each bipolar electrode including a collector having one surface formed with the cathode layer and the other surface formed with the anode layer.

8 (Original): A lithium ion secondary battery according to claim 6,

wherein the cathode layer includes a cathode active material which is a lithium transition-metal composite oxide.

9 (Original): A lithium ion secondary battery according to claim 6,

wherein the electrolyte comprises polymer used in a gel form or solid form.

10 (Original): A lithium ion secondary battery according to claim 6,

wherein the lithium ion secondary battery is used in an assembled battery.

11 (Original): A lithium ion secondary battery according to claim 10,

wherein the assembled battery is used for a vehicle.

12 (Original): A lithium ion secondary battery, comprising:

an anode electrode including an anode layer having carbonaceous material;

a cathode electrode including a cathode layer; and

an electrolyte interposed between the cathode electrode and the anode electrode;

wherein the anode layer has a thickness less than 1 μm .

13 (Original): A lithium ion secondary battery according to claim 12,

wherein the lithium ion secondary battery has a structure including a plurality of bipolar electrodes serially stacked by interposing electrolyte therebetween, each bipolar electrode including a collector having one surface formed with the cathode layer and the other surface formed with the anode layer.

14 (Original): A lithium ion secondary battery according to claim 12,

wherein the cathode layer includes a cathode active material which is a lithium transition-metal composite oxide.

15 (Original): A lithium ion secondary battery according to claim 12,

wherein the electrolyte comprises polymer used in a gel form or solid form.

16 (Original): A lithium ion secondary battery according to claim 12,

wherein the lithium ion secondary battery is used in an assembled battery.

17 (Original): A lithium ion secondary battery according to claim 16,

wherein the assembled battery is used for a vehicle.